

MLFB-Ordering data 1FG1104-1RF12-2AN1-Z
D01+K06+N23

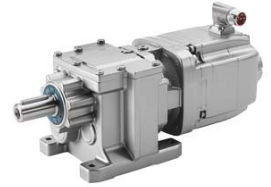


Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

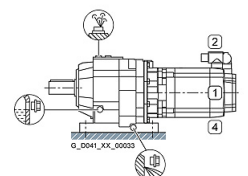
Gear box type	Z49	Radial force maximum	4140 N
Gearbox basic type	Helical geared	Max. permissible radial force with Mmax	4060 N
Gearbox size	49	Moment of inertia	1.10 kgcm ²
Transmission stages	2	Torsional stiffness	14 Nm/°
Transmission (ratio)	16.42	Efficiency	0.95
Gear number relation	2365/144	Mounting position	M1
Output moment maximum (short-time)	340 Nm	Mounting type	Foot-mounted
max. input speed (briefly)	4500 rpm	Output shaft version	Solid shaft standard
Output speed short-time	274 rpm	Output shaft dimension	V30x60 mm
Emergency off output moment (1000 cycles)	540 Nm	Gearbox flange diameter	-/-
		Output shaft bearing	No
		Figure 2 torque support	-

General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	33.13 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	75
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Standard
Oil charge	0.55 l



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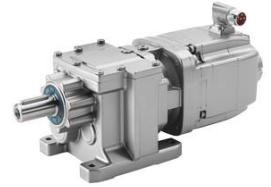


Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	6000 rpm
Motor type	Compact	Maximum torque	37.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	17.2 A
Shaft height	80 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2000 rpm
Rated speed	2000 rpm	Optimum power	1.90 kW
Rated torque (100K)	9.10 Nm	Recommended Motor Module	
Rated power	1.91 kW	Rated inverter current	5.0 A
Rated current (100K)	4.00 A	Maximum inverter current	15.0 A
Static torque	11.00 Nm	Maximum torque	33.3 Nm
Static current	4.65 A	Holding brake	
Moment of inertia	23.50000 kgcm ²	Holding brake	with holding brake
Efficiency η	92 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1	Braking torque M_{2Br}	11.00 Nm
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Holding torque M_{4Br}	22.00 Nm
		Opening time	200.0 ms
		Closing time	60.0 ms
		Maximum switching energy per braking action	1400.0 J

Info servo geared motor

Outside the standard temperature range of -10 to +40 °C, further selectable options must be observed, in addition to the lubricant selection.

Further, you have to check the suitability of the components and options used for the requested temperature range.

SIEMENS

Data sheet for SIMOTICS S-1FG1

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Figure similar

Options		Standards	
D01	M1 for helical and parallel shaft gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
K06	Mineral oil CLP ISO VG220		
N23	Standard holding brake (permanent magnet brake)		
		CE marking	EN 60034